

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	"6501804".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 14:42
L2	2	"5557067".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 14:43
L3	0	zimmerman.pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 14:43
L4	6757	zimmerman.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 14:43
L5	732	zimmerman.in. and "1996"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 14:44

## EAST Search History

L6	204	("20010024479" "20020158619" "20020176516" "20030138037" "20040110467" "20040146296" "20050008100" "3878468" "3879664" "3974449" "4068186" "4213095" "4253184" "4283684" "4384355" "4416015" "4500984" "4519084" "4594725" "4628507" "4637017" "4647873" "4654863" "4670789" "4709374" "4800573" "4835790" "4847864" "4860315" "4878030" "4896369" "4918708" "4993047" "5088110" "5111155" "5199047" "5221908" "5229765" "5233632" "5285480" "5317599" "5467197" "5493307" "5555257" "5557067" "5581229" "5606286" "5625640" "5642358" "5648955" "5732113" "5793818" "5828710" "5848060" "5870443" "5940025" "5956373" "5963845" "5966048" "5970098" "5995832" "6008692" "6018556" "6021159" "6052586" "6061393" "6084919" "6125148" "6128357" "6131013" "6141534" "6166601" "6178158" "6188717" "6212360" "6249180" "6266534" "6272679" "6304594" "6307435" "6320919" "6325332" "6366309" "6389002" "6411659" "6426822" "6429740" "6433835" "6501804" "6515713" "6535497" "6535801" "6597750" "6741662" "6745050" "6775521" "6892068" "6934314" "RE31351").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 15:57
L9	2	"5577067".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:03
L10	9	("20020071506" "5603084" "6411797" "6731700").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L11	534	375/322	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32

## EAST Search History

L12	3729	375/316	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L13	299	375/320	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L14	1888	375/343	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L15	1852	375/261	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L16	1053	375/298	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L17	736	375/279	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L18	391	375/281	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L19	1148	370/206	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32

## EAST Search History

L20	724	455/17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L21	1227	332/103	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L22	1412	329/304	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L23	883	375/308	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L24	1007	coherent and "non-coherent" and modulation and receive\$3 and quadrature	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L25	12	L11 and L24	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L26	289	"non-coherent" same quadrature	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L27	3	L26 and L11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32

## EAST Search History

L28	22	"non-coherent" and quadrature and (layer\$2 with modulat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L29	25	L26 and L12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L30	0	L26 and L13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L31	36	L26 and L14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L32	1	L28 and L11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L33	2	L28 and L12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L34	0	L28 and L13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L35	1	L28 and L14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32

## EAST Search History

L36	1	L28 and L15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L37	0	L28 and L16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L38	0	L28 and L18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L39	0	L28 and L19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L40	0	L28 and L20	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L41	1	L28 and L21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L42	1	L28 and L22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L43	0	L28 and L23	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32

## EAST Search History

L44	1	L28 and L17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L45	6611	coherent with "non-coherent"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L46	363	coherent with "non-coherent" with modulation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L47	5885914	coherent with "non-coherent" with modulationwith receiv\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L48	150	coherent same "non-coherent" same modulation with receiv\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L49	323	coherent same "non-coherent" same modulation same receiv\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L50	0	(coherent and "non-coherent" and modulation and receiv\$3 and quadrature and layer\$2).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L51	0	(coherent\$2 and (non adj coherent\$2) and modulation and receiv\$3 and quadrature and layer\$2).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32

## EAST Search History

L52	1	"10/068047"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L53	8413	("non-coherent" or (non adj coherent) or noncoherent)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L54	355	("non-coherent" or (non adj coherent) or noncoherent) and layered	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L55	1	"10/068047"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L56	8413	("non-coherent" or (non adj coherent) or noncoherent)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L57	355	("non-coherent" or (non adj coherent) or noncoherent) and layered	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L58	184	(legacy with signal) and (layer\$3 with signal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L59	31	(legacy with (signal or system)) with (layer\$3 with signal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32

## EAST Search History

L60	1	"10/068047"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L61	1	"10/068047"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L62	8413	("non-coherent" or (non adj coherent) or noncoherent)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L63	355	("non-coherent" or (non adj coherent) or noncoherent) and layered	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L64	1	"10/068047"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L65	8413	("non-coherent" or (non adj coherent) or noncoherent)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L66	355	("non-coherent" or (non adj coherent) or noncoherent) and layered	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L67	224	legacy with "non-legacy"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32

## EAST Search History

L68	6611	coherent with "non-coherent"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:32
L69	363	coherent with "non-coherent" with modulation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L70	5885914	coherent with "non-coherent" with modulationwith receiv\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L71	150	coherent same "non-coherent" same modulation with receiv\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L72	323	coherent same "non-coherent" same modulation same receiv\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L73	87	coherent with "non-coherent" with modulation with receiv\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L74	76	coherent same "non-coherent" same modulation same receiv\$3 same quadrature	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L75	15	coherent same "non-coherent" same modulation same receiv\$3 same quadrature same layer\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33

## EAST Search History

L76	59	"238822"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L77	20	"356906"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L78	3	"356906" and EP	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L79	15	"3383598".pn. "5577087".pn. "5602868".pn. "5815531".pn. "5960040".pn. "5987068".pn. "6275678".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L80	15	"3383598".pn. "5577087".pn. "5602868".pn. "5815531".pn. "5960040".pn. "5987068".pn. "6275678".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L81	4	"4039961".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L82	18	"5329311".pn. "5450623".pn. "5966186".pn. "6028894".pn. "6032026".pn. "6034952".pn. "6108374".pn. "6140809".pn. "6219095".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L83	4	"5430770".pn. "5966412".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33

## EAST Search History

L84	4	"4039961".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L85	2	"6574235".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L86	2	"5819157".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L87	2	"6297691".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L88	2	"5430770".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L89	13	("3849730"   "3878475").PN. OR ("4039961").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/16 16:33
L90	12	("non-coherent" or (non adj coherent) or noncoherent) with layered	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L91	36	("non-coherent" or (non adj coherent) or noncoherent) same layered	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L92	25	("non-coherent" or (non adj coherent) or noncoherent) and (layered with modulation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33

## EAST Search History

L93	6	("5625640" "6718184" "6745050"). PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L94	12	("4800573" "5467197" "6266534" "6433835" "6574235" "6597750"). PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L95	29	("non-coherent" or (non adj coherent) or noncoherent) and (layered same modulation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L96	2	"20050008100".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L97	59	"238822"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L98	20	"356906"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L99	3	"356906" and EP	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L100	15	"3383598".pn. "5577087".pn. "5602868".pn. "5815531".pn. "5960040".pn. "5987068".pn. "6275678".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33

## EAST Search History

L101	15	"3383598".pn. "5577087".pn. "5602868".pn. "5815531".pn. "5960040".pn. "5987068".pn. "6275678".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L102	4	"4039961".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L103	18	"5329311".pn. "5450623".pn. "5966186".pn. "6028894".pn. "6032026".pn. "6034952".pn. "6108374".pn. "6140809".pn. "6219095".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L104	4	"5430770".pn. "5966412".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L105	4	"4039961".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L106	2	"6574235".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L107	2	"5819157".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L108	2	"6297691".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33

## EAST Search History

L109	2	"5430770".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L110	13	("3849730"   "3878475").PN. OR ("4039961").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/16 16:33
L111	12	("non-coherent" or (non adj coherent) or noncoherent) with layered	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L112	36	("non-coherent" or (non adj coherent) or noncoherent) same layered	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L113	25	("non-coherent" or (non adj coherent) or noncoherent) and (layered with modulation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L114	6	("5625640" "6718184" "6745050"). PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L115	12	("4800573" "5467197" "6266534" "6433835" "6574235" "6597750"). PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L116	29	("non-coherent" or (non adj coherent) or noncoherent) and (layered same modulation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L117	2	"20050008100".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33

## EAST Search History

L118	2	("5999793").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L119	10	("5121414" "5579344" "6055278" "6144708" "6330336").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L120	31	(legacy with signal) with (layer\$3 with signal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L121	45	(legacy with signal) same (layer\$3 with signal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L122	13	("3849730"   "3878475").PN. OR ("4039961").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/16 16:33
L123	59	"238822"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L124	20	"356906"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L125	3	"356906" and EP	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L126	15	"3383598".pn. "5577087".pn. "5602868".pn. "5815531".pn. "5960040".pn. "5987068".pn. "6275678".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33

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L127	15	"3383598".pn. "5577087".pn. "5602868".pn. "5815531".pn. "5960040".pn. "5987068".pn. "6275678".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L128	4	"4039961".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L129	18	"5329311".pn. "5450623".pn. "5966186".pn. "6028894".pn. "6032026".pn. "6034952".pn. "6108374".pn. "6140809".pn. "6219095".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L130	4	"5430770".pn. "5966412".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L131	4	"4039961".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L132	2	"6574235".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L133	2	"5819157".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L134	2	"6297691".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33

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L135	2	"5430770".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L136	13	("3849730"   "3878475").PN. OR ("4039961").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/16 16:33
L137	12	("non-coherent" or (non adj coherent) or noncoherent) with layered	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L138	36	("non-coherent" or (non adj coherent) or noncoherent) same layered	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L139	25	("non-coherent" or (non adj coherent) or noncoherent) and (layered with modulation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L140	6	("5625640" "6718184" "6745050"). PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L141	12	("4800573" "5467197" "6266534" "6433835" "6574235" "6597750"). PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L142	29	("non-coherent" or (non adj coherent) or noncoherent) and (layered same modulation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L143	2	"20050008100".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33

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L144	59	"238822"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L145	20	"356906"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L146	3	"356906" and EP	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L147	15	"3383598".pn. "5577087".pn. "5602868".pn. "5815531".pn. "5960040".pn. "5987068".pn. "6275678".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L148	15	"3383598".pn. "5577087".pn. "5602868".pn. "5815531".pn. "5960040".pn. "5987068".pn. "6275678".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L149	4	"4039961".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L150	18	"5329311".pn. "5450623".pn. "5966186".pn. "6028894".pn. "6032026".pn. "6034952".pn. "6108374".pn. "6140809".pn. "6219095".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L151	4	"5430770".pn. "5966412".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33

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L152	4	"4039961".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L153	2	"6574235".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L154	2	"5819157".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L155	2	"6297691".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L156	2	"5430770".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L157	13	("3849730"   "3878475").PN. OR ("4039961").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/16 16:33
L158	12	("non-coherent" or (non adj coherent) or noncoherent) with layered	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L159	36	("non-coherent" or (non adj coherent) or noncoherent) same layered	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L160	25	("non-coherent" or (non adj coherent) or noncoherent) and (layered with modulation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33

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L161	6	("5625640" "6718184" "6745050").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L162	12	("4800573" "5467197" "6266534" "6433835" "6574235" "6597750").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L163	29	("non-coherent" or (non adj coherent) or noncoherent) and (layered same modulation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L164	2	"20050008100".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L165	13	("3849730"   "3878475").PN. OR ("4039961").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/16 16:33
L166	71	legacy with "non-legacy" and broadcast\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L167	87	coherent with "non-coherent" with modulation with receiv\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L168	76	coherent same "non-coherent" same modulation same receiv\$3 same quadrature	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L169	15	coherent same "non-coherent" same modulation same receiv\$3 same quadrature same layer\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33

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L170	9	("20020071506" "5603084" "6411797" "6731700").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:33
L171	2	"20060056330".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:52
L172	2	"20050008100".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 16:53

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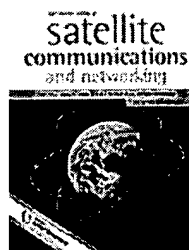
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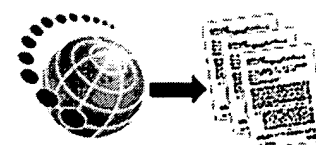
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\*Correspondence to Vittoria Mignone, Rai-CRIT, Corso E. Giambone 68, I-10135, Torino, Italy

**KEYWORDS**

backward compatible • hierarchical modulation • layered modulation

**ABSTRACT**

The second generation Digital Video Broadcasting (DVB) system for satellite broadcasting (DVB-S2) has been standardized including tools to allow backward compatibility (BC) with the operating standard DVB-S (EN 300 421, Digital Video Broadcasting (DVB); Framing structure, channel coding and modulation for 11/12 GHz satellite services. V.1.1.2, August 1997, <http://www.etsi.org>). Two conceptual ways of implementing BC have been defined: hierarchical modulation and layered modulation.

The paper describes the standardized backward-compatible modes and presents the results of analytical investigations and simulations of the system in various configurations, as carried out by DIRECTV, Rai-CRIT and Thomson. Copyright © 2004 John Wiley & Sons, Ltd.

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**CHEN, Ernest, C. / ANDERSON, Paul, R. / SANTORU, Joseph / HUGHES ELECTRONICS CORPORATION, PATENT COOPERATION TREATY APPLICATION, May 2004**  
...REQUIREMENTS ACCORDING TO AVAILABILITY IN **LAYERED MODULATION** SYSTEMS CROSS-REFERENCE TO RELATED...MITIGATE CARRIER POWER REQUIREMENTS IN **LAYERED MODULATION**," by Ernest C. Chen, 5 Paul R. Anderson...2001, by Ernest C. Chen, entitled "**LAYERED MODULATION** FOR DIGITAL SIGNALS," attorneys...  
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**CHEN, Ernest, C. / SANTORU, Joseph / HUGHES ELECTRONICS CORPORATION, PATENT COOPERATION TREATY APPLICATION, Jan 2004**  
...signal layers in a **layered modulation** transmission...layers may be **non-coherent**. The second layer...two layers are **non-coherent**, the second layer...special case of **layered modulation** is found in hierarchical...be coherent or **non-coherent**.  
&lsqb;0068&rsqb;...receiver 500 of a **layered modulation** signal, similar...  
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...from the received **layered modulation** signal with a subtracter...Typically, the received **layered modulation** signal is a multiple...comprise separate **non-coherent** modulated signal...from the received **layered modulation** signal. The upper...  
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**ANDERSON, Paul, R. / SANTORU, Joseph / CHEN, Ernest, C. / THE DIRECTV GROUP, INC., PATENT COOPERATION TREATY APPLICATION, May 2004**

...CONFIGURATIONS TO SUPPORT **LAYERED MODULATION** FOR DIGITAL SIGNALS...architecture for a **layered modulation** signal &lsqb; 0041...using multiple **non-coherent** carriers occupying...However, because the **layered modulation** technique uses...

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**CHEN, Ernest, C. / THE DIRECTV GROUP, INC., PATENT COOPERATION TREATY APPLICATION**, May 2004


...A1, by Ernest C. Chen, entitled "**LAYERED MODULATION** FOR DIGITAL SIGNALS," attorneys...rsqb; It has been proposed that a **layered modulation** signal, transmitting non-coherently...Application Serial No. 09/844,401. Such **layered modulation** systems allow higher information...

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...receiving **non-coherent layered modulation** for digital...signals may be **non-coherent** there is...However, **layered modulation** may still...layers in a **layered modulation** transmission...layers may be **non-coherent**. The second...

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**CHEN, Ernest, C. / MAITRA, Shamik / THE DIRECTV GROUP, INC., PATENT COOPERATION TREATY APPLICATION**, May 2004

...by Ernest C. 15 Chen, entitled "**LAYERED MODULATION** FOR DIGITAL SIGNALS," attorneys...rsqb; It has been proposed that a **layered modulation** signal, transmitting non-coherently...employed to meet these needs. Such **layered modulation** systems allow higher information...

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☐ 9. IMPROVING HIERARCHICAL 8PSK PERFORMANCE

**CHEN, Ernest, C. / SANTORU, Joseph / HUGHES ELECTRONICS CORPORATION, PATENT COOPERATION TREATY APPLICATION**, Jan 2004

...on April 27, 2001, and entitled "**LAYERED MODULATION** FOR DIGITAL SIGNALS", by Ernest C...The terminology UL and LL used in **Layered modulation** are synonymous to HP and LP used...extracted LL signal is avoided. With a **Layered modulation** mapping, the LP bit value for the...

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Characterization of Protocol-compatible Bluetooth/802.11 RFID Tags

... tags will not necessarily share the same physical **layer modulation** scheme. ...  
Therefore, the base station must employ **non-coherent** demodulation of the ...  
[rfdesign.com/mag/radio\\_characterization\\_protocolcompatible\\_bluetooth/index.html](http://rfdesign.com/mag/radio_characterization_protocolcompatible_bluetooth/index.html) - 81k -  
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PHY. **layer**: **Modulation** & Spreading. 25MHz, 2.5MHz ... Comparison in complexity with  
**non-coherent** receivers; Comparison in cost with **non-coherent** receivers ...  
[grouper.ieee.org/groups/802/15/pub/05/15-05-0008-00-004a-thales-uw-b-ir.ppt](http://grouper.ieee.org/groups/802/15/pub/05/15-05-0008-00-004a-thales-uw-b-ir.ppt) -  
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[PDF] March, 2000 IEEE P802.15-00/077r1 IEEE P802.15 Wireless Personal ...

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PHYSical **layer modulation** detail. Abstract ... This specification could be set to discourage  
**non-coherent** detection. methods. ...  
[grouper.ieee.org/.../2000/Mar00/00077r1P802-15\\_HRSG-Case-for-DOQPSK-High-Rate-Physical-Medium-Modulation.pdf](http://grouper.ieee.org/.../2000/Mar00/00077r1P802-15_HRSG-Case-for-DOQPSK-High-Rate-Physical-Medium-Modulation.pdf) - [Similar pages](#)

United States Patent Application: 0020151318

... for a channel comprises logic for estimating a bit error rate from a signal degradation  
parameter of a physical **layer modulation** for the channel . ...  
[appft1.uspto.gov/.../kline+AND+IC/gaithersburg&RS=IN/kline+AND+IC/gaithersburg](http://appft1.uspto.gov/.../kline+AND+IC/gaithersburg&RS=IN/kline+AND+IC/gaithersburg) - 40k -  
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**Non-coherent** detector. Spreading & Modulation. Digital Block. Matched Filter; Signal.  
Acquisition ... PHY **layer**: **Modulation** & Spreading. 25MHz, 2.5MHz ...  
[www.ieee802.org/15/pub/2005/15-05-0008-01-004a-thales-uw-b-ir.ppt](http://www.ieee802.org/15/pub/2005/15-05-0008-01-004a-thales-uw-b-ir.ppt) - [Similar pages](#)

NASA-98-cr208441

VDL Sub-Networks Layers · Network Layer · VDL Physical **Layer-Modulation** ... BER  
performance of **non-coherent** limiter detection of GMSK · Figure D-15b. ...  
[www.tpub.com/content/nasa1998/NASA-98-cr208441/](http://www.tpub.com/content/nasa1998/NASA-98-cr208441/) - 48k - [Cached](#) - [Similar pages](#)

Carrier to noise ratio estimations from a received signal patent - 3:52pm

Although both signals 808A , 808B arrive at each antenna 812A , 812B and LNB 810A ,  
810B , only the **layer modulation** IRD 802 is capable of decoding both ...  
[www.freshpatents.com/Carrier-to-noise-ratio-estimations-from-a-received-signal-](http://www.freshpatents.com/Carrier-to-noise-ratio-estimations-from-a-received-signal-)

dt20050113ptan20050008100.... - 82k - Supplemental Result - [Cached](#) - [Similar pages](#)

### WCNC 2002 Conference

Coherent, differential and **non-coherent** schemes are covered along with ... processes including the physical **layer modulation** and coding, unwanted emissions, ...  
[www.comsoc.org/confs/wcnc/2002/Tutorials.html](http://www.comsoc.org/confs/wcnc/2002/Tutorials.html) - 39k - [Cached](#) - [Similar pages](#)

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All of the words

- ☐ 1. March 2000 IEEE P802 15 - 00/077r1 [PDF-27K]  
Jul 2000  
...microweb.com Re: PHYsical **layer modulation** detail Abstract  
Optimized...expected to be 3 dB better than **non-coherent** because half of  
the noise...lower than is usual with **non-coherent** demodulators (e.g.,  
discriminators...detection filtering with **non-coherent**. Radio Design A block  
diagram...  
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M844	2004-03-29	19	Y <input checked="" type="checkbox"/>	2004-04-05 18:12:35.0	rsherman
M844	2002-09-27	15	Y <input checked="" type="checkbox"/>	2002-11-04 10:54:13.0	lmclauchlin
M844	2002-09-09	14	Y <input checked="" type="checkbox"/>	2002-11-04 10:53:52.0	lmclauchlin
M844	2002-04-25	11	Y <input checked="" type="checkbox"/>	2002-11-04 10:53:34.0	lmclauchlin
M844	2002-02-05	10	Y <input checked="" type="checkbox"/>	2002-11-04 10:53:29.0	lmclauchlin
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## Inventor Information for 10/068047

Inventor Name	City	State/Country
<u>CHEN, ERNEST C.</u>	SAN PEDRO	CALIFORNIA
<u>FURUYA, TIFFANY S.</u>	LOS ANGELES	CALIFORNIA
<u>R. HILMES, PHILLIP</u>	SANTA MONICA	CALIFORNIA
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Last Name = SANTORU

First Name = JOSEPH

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">07181279</a>	<a href="#">4912367</a>	150	04/14/1988	PLASMA-ASSISTED HIGH-POWER MICROWAVE GENERATOR	SANTORU, JOSEPH
<a href="#">07181340</a>	<a href="#">4916361</a>	150	04/14/1988	PLASMA WAVE TUBE	SANTORU, JOSEPH
<a href="#">07783305</a>	Not Issued	89	10/28/1991	ABSORBING SWITCHABLE PLASMA PANEL	SANTORU, JOSEPH
<a href="#">08259650</a>	<a href="#">5523651</a>	150	06/14/1994	PLASMA WAVE TUBE AMPLIFIER/PRIMED OSCILLATOR	SANTORU, JOSEPH
<a href="#">08612988</a>	<a href="#">5663694</a>	150	03/08/1996	TRIGGERED-PLASMA MICROWAVE SWITCH AND METHOD	SANTORU, JOSEPH
<a href="#">09095166</a>	<a href="#">6064154</a>	150	06/10/1998	MAGNETRON TUNING USING PLASMAS	SANTORU, JOSEPH
<a href="#">09992992</a>	<a href="#">6611238</a>	150	11/06/2001	METHOD AND APPARATUS FOR REDUCING EARTH STATION INTERFERENCE FROM NON-GSO AND TERRESTRIAL SOURCES	SANTORU, JOSEPH
<a href="#">10068039</a>	Not Issued	71	02/05/2002	PREPROCESSING SIGNAL LAYERS IN A LAYERED MODULATION DIGITAL SIGNAL SYSTEM TO USE LEGACY RECEIVERS	SANTORU, JOSEPH
<a href="#">10068047</a>	Not Issued	71	02/05/2002	DUAL LAYER SIGNAL PROCESSING IN A LAYERED MODULATION DIGITAL SIGNAL SYSTEM	SANTORU, JOSEPH
<a href="#">10348274</a>	<a href="#">6975837</a>	150	01/21/2003	METHOD AND APPARATUS FOR REDUCING INTERFERENCE BETWEEN TERRESTRIALLY-BASED AND SPACE-BASED BROADCAST SYSTEMS	SANTORU, JOSEPH
<a href="#">10519322</a>	Not Issued	30	12/23/2004	Improving hierarchical 8psk performance	SANTORU, JOSEPH
<a href="#">10519375</a>	Not Issued	30	12/22/2004	Method and apparatus for layered modulation	SANTORU, JOSEPH

<a href="#">10532582</a>	Not Issued	30	04/25/2005	Method and apparatus for tailoring carrier power requirements according to availability in layered modulation systems	SANTORU, JOSEPH
<a href="#">10532631</a>	Not Issued	30	04/25/2005	Feeder link configurations to support layered modulation for digital signals	SANTORU, JOSEPH
<a href="#">10532632</a>	Not Issued	30	04/25/2005	Lower complexity layered modulation signal processor	SANTORU, JOSEPH
<a href="#">10568384</a>	Not Issued	30	02/14/2006	Simplified scrambling scheme for satellite broadcasting systems	SANTORU, JOSEPH
<a href="#">10669211</a>	Not Issued	20	09/23/2003	Sample generation method and system for digital simulation processes	SANTORU, JOSEPH
<a href="#">10693140</a>	Not Issued	71	10/24/2003	OPTIMIZATION TECHNIQUE FOR LAYERED MODULATION	SANTORU, JOSEPH
<a href="#">11015705</a>	Not Issued	40	12/17/2004	Tri-head KaKuKa feed for single-offset dish antenna	SANTORU, JOSEPH
<a href="#">11102958</a>	Not Issued	25	04/11/2005	Physical layer header scrambling in satellite broadcast systems	SANTORU, JOSEPH
<a href="#">11102983</a>	Not Issued	30	04/11/2005	Shifted channel characteristics for mitigating co-channel interference	SANTORU, JOSEPH
<a href="#">11103307</a>	Not Issued	30	04/11/2005	Methods and apparatuses for minimizing co-channel interference	SANTORU, JOSEPH
<a href="#">11274771</a>	Not Issued	30	11/15/2005	Antenna pointing aid	SANTORU, JOSEPH
<a href="#">11376813</a>	Not Issued	25	03/16/2006	Adaptive coding and modulation for spot beam satellite broadcast	SANTORU, JOSEPH
<a href="#">60392860</a>	Not Issued	159	07/01/2002	Hierarchical 8PSK performance	SANTORU, JOSEPH
<a href="#">60392861</a>	Not Issued	159	07/01/2002	Hierarchical 8PSK performance	SANTORU, JOSEPH
<a href="#">60393437</a>	Not Issued	159	07/03/2002	Layered modulation simulation results	SANTORU, JOSEPH
<a href="#">60421328</a>	Not Issued	159	10/25/2002	Feeder link configurations to support layered modulation for digital signals	SANTORU, JOSEPH
<a href="#">60421331</a>	Not Issued	159	10/25/2002	Lower complexity layered modulation signal processor	SANTORU, JOSEPH
<a href="#">60421333</a>	Not Issued	159	10/25/2002	Reducing availability to mitigate carrier power requirements in layered modulation	SANTORU, JOSEPH
<a href="#">60498824</a>	Not Issued	159	08/29/2003	Simplified scrambling scheme for satellite broadcasting systems	SANTORU, JOSEPH
<a href="#">60530435</a>	Not Issued	159	12/17/2003	Tri-head Kakuka feed for single-offset dish antenna	SANTORU, JOSEPH
<a href="#">60561418</a>	Not Issued	159	04/12/2004	Co-channel interference mitigation for DVB-S2	SANTORU, JOSEPH
<a href="#">60583410</a>	Not	159	06/28/2004	Scrambling of physical layer header and	SANTORU, JOSEPH

	Issued			pilot symbol in DBV-S2 to reduce co-channel interference	
<a href="#">60585654</a>	Not Issued	159	07/06/2004	Scrambling of physical lay header and pilot symbol in DVB-S2 to reduce co-channel interference	SANTORU, JOSEPH
<a href="#">60711475</a>	Not Issued	20	08/26/2005	Methods and apparatuses for determining scrambling codes for signal transmission	SANTORU, JOSEPH
<a href="#">60771394</a>	Not Issued	20	02/08/2006	Blind identification of advanced modulation and coding modes	SANTORU, JOSEPH

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Last Name = FURUYA

First Name = TIFFANY S.

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>10068047</u>	Not Issued	71	02/05/2002	DUAL LAYER SIGNAL PROCESSING IN A LAYERED MODULATION DIGITAL SIGNAL SYSTEM	FURUYA, TIFFANY S.

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Last Name = CHEN

First Name = ERNEST C.

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">07949920</a>	<a href="#">5343203</a>	150	09/24/1992	DOPPLER TRACKING METHOD FOR OBJECT IMAGING FROM RADAR RETURNS	CHEN, ERNEST C.
<a href="#">10068047</a>	Not Issued	71	02/05/2002	DUAL LAYER SIGNAL PROCESSING IN A LAYERED MODULATION DIGITAL SIGNAL SYSTEM	CHEN, ERNEST C.
<a href="#">10153250</a>	Not Issued	41	05/22/2002	Device and method for nodal multiple access into communications channels	CHEN, ERNEST C.

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